

**MEMORANDUM**

To: Bonnie Lavelle, Chris Weis
From: Adrian Bradley, Mary Goldade
Date: November 29, 1999
Project: Vasquez Boulevard and I-70
Re: Minimum Detection Limit Study for Arsenic and Lead in Site Soils: Study #3
cc: Project Files

This memorandum provides the information necessary to perform the third of four method detection limit (MDL) studies, using soils collected at the VBI70 site. The goal of the studies is to identify the MDL for arsenic and lead in multiple soils that are representative of soils across the site boundaries.

General Approach

As discussed at the October 8, 1999 meeting, each MDL study will be comprised of 4 different site soils, three of which were collected from residential properties within the study area and one that was collected at the 'baseline' soil site.

Sample selection over the course of the four MDL studies will alternate among the five neighborhoods so that soils across the study area are represented. The number of samples that are anticipated to be included from each neighborhood and from the baseline soil is provided in Table 1.

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Contract No.: N00174-99-D-003
Delivery Order No.: 0002
Purchase Request No.: 9203.3858
EPA IAG No.: DW17953800-01-0



Table 1. Estimated Number of Properties from each Neighborhood

Neighborhood	Estimated Number of Properties
Cole	3
Clayton	3
Five Points	2
Globeville	2
Swansea/Elyria	2
Baseline	4

All samples must be dried and sieved using the #10 sieve prior to analysis (The baseline soil has been dried but should also be sieved using a #10 sieve). A minimum mass of 70 g (10 g for each replicate sample) of the prepared sample is required. The MDL study will be performed in accordance with the Phase III Field Investigation Project Plan (USEPA 1999).

Candidate Samples

These site soils for MDL Study #3 were selected by querying the Phase III database for yard soil samples containing arsenic concentrations between 10 and 15 mg/kg. From the resulting list, one sample each from Cole, Five Points, and Globeville, was selected. The three samples to be included in MDL Study #3 are provided in Table 2. Seven aliquots of the soil from the baseline site have been prepared, and will be delivered under chain-of-custody to the VBI70 Field Office on Tuesday, November 30, 1999. A copy of the chain-of-custody form is attached. The next study will be conducted in approximately two weeks, and we will provide you with another list of samples. A summary of the number of neighborhoods selected to date is provided in Table 3.

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ISSI Consulting Group

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Denver, CO 80202
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Table 2. List of Residential Samples for MDL Study #3

Property Address	Neighborhood	Sample ID Number
3459 Humboldt Street	Cole	3-03957-B
3536 Delgany Street	Five Points	3-01633-B
4488 Delaware Street	Globeville	3-01667-B

Table 3. Samples Included in MDL Study #1, Study #2, and Study #3

Neighborhood	Number of Samples
Clayton	2
Cole	2
Five Points	2
Globeville	2
Swansea	1
Baseline	3

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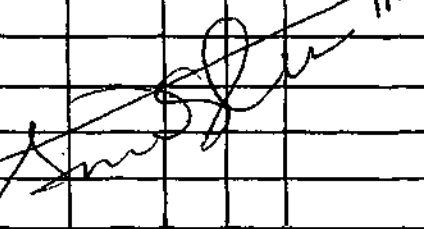
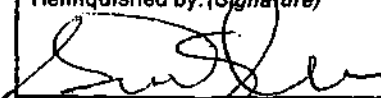
Attachment

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CHAIN OF CUSTODY RECORD

REGION VIII, ONE DENVER PLACE
999 18TH. STREET
DENVER, CO. 80202-2413

PROJ. NO.		PROJECT NAME				NO. OF CON- TAINERS	REMARKS					
SAMPLERS: (Signature)												
STAT. NO.	DATE	TIME	COMP.	GRAB	STATION LOCATION							
	11/29/99	1430	✓		MDL 5-1	1	✓	✓				
			✓		MDL 5-2	1	✓	✓				
			✓		MDL 5-3	1	✓	✓				
			✓		MDL 5-4	1	✓	✓				
			✓		MDL 5-5	1	✓	✓				
			✓		MDL 5-6	1	✓	✓				
	11	11	✓		MDL 5-7	1	✓	✓				
 11-29-99												
Relinquished by: (Signature)		Date/Time		Received by: (Signature)		Relinquished by: (Signature)		Date/Time		Received by: (Signature)		
		11/29/99 1445										
Relinquished by: (Signature)		Date/Time		Received by: (Signature)		Relinquished by: (Signature)		Date/Time		Received by: (Signature)		
Relinquished by: (Signature)		Date/Time		Received for Laboratory by: (Signature)		Date/Time		Remarks				

Distribution: Original Accompanies Shipment: First Copy to Coordinator Field Files: Second Copy to Representative of Inspected Facility

Split Samples:
☐ Accepted ☐ Declined
 Signature _____